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Steve Bryson

May 1996 **Communications of the ACM**, Volume 39 Issue 5

Publisher: ACM Press

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2 [Research directions in virtual environments: report of an NSF Invitational Workshop.](#)



March 23-24, 1992, University of North Carolina at Chapel Hill

Gary Bishop, Henry Fuchs

August 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(2.33 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

3 [Adding force feedback to graphics systems: issues and solutions](#)



William R. Mark, Scott C. Randolph, Mark Finch, James M. Van Verth, Russell M. Taylor

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques SIGGRAPH '96**

Publisher: ACM Press

Full text available: pdf(199.79 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: force feedback, friction model, haptic, interactive graphics, intermediate surface representation, scientific visualization, virtual environment, virtual world

4 [Applications: Exploring virtual ecosystems](#)



Antão Vaz Almada, António Eduardo Dias, João Pedro Silva, Emanuel Marques dos Santos, Pedro José Pedrosa, António Sousa Câmara

May 1996 **Proceedings of the workshop on Advanced visual interfaces AVI '96**

Publisher: ACM Press

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 Ott, R.; Gutierrez, M.; Thalmann, D.; Vexo, F.;
[Intelligent Vehicles Symposium, 2005. Proceedings. IEEE](#)
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- ☐ 5. **Dynamic simulation of virtual mechanisms with haptic feedback using in equipment**
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L1	15	US-6422941-\$.DID. OR US-6160489-\$.DID. OR US-5690582-\$.DID. OR US-5575761-\$.DID. OR US-5437607-\$.DID. OR US-5436622-\$.DID. OR US-5186695-\$.DID. OR US-5175459-\$.DID. OR US-5022384-\$.DID. OR US-4885565-\$.DID. OR US-4484191-\$.DID. OR US-4464117-\$.DID. OR US-4333070-\$.DID. OR US-4127752-\$.DID. OR US-2972140-\$.DID.	USPAT	OR	OFF	2007/01/11 13:51
L2	9	US-5047952-\$.DID. OR US-5184319-\$.DID. OR US-5562707-\$.DID. OR US-5563632-\$.DID. OR US-5587937-\$.DID. OR US-5631861-\$.DID. OR US-5676157-\$.DID. OR US-5803738-\$.DID. OR US-6424333-\$.DID.	USPAT	OR	OFF	2007/01/11 13:51
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L5	22	(virtual adj object) and (simulat\$5 adj hand)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 14:29
L6	3	("4937444" "5320538" "5590062").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/11 14:33
L7	0	(rigid adj object) with (simulated adj hand)	USPAT	OR	OFF	2007/01/11 14:34
L8	13	(rigid adj object) and (virtual adj3 environment)	USPAT	OR	OFF	2007/01/11 14:34
L9	34	(rigid adj object) and (virtual adj3 environment)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 14:34
L10	13	("4474035" "5150452" "5177982" "5347459" "5515489" "5548694" "5572634" "5694013" "5761391" "5973678" "6049756" "6191796" "6704694").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/11 15:08
L12	934	((715/701,702,757,706) or (703/6)).CCLS.	USPAT	OR	OFF	2007/01/11 15:09
L13	44	12 and (virtual adj object)	USPAT	OR	ON	2007/01/11 15:18
L14	890	12 not 13	USPAT	OR	ON	2007/01/11 15:18
S1	6106	goniometer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 10:14
S2	233	S1 and virtual	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 10:15
S3	164	S2 and hand	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 10:15

EAST Search History

S4	84	S3 and simulat\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 10:15
S5	63	("3263824" "4302138" "4414984" "4584625" "5184319").PN. OR ("5631861"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/11 12:34
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JF **Kramer** - US Patent 6,979,164, 2005 - Google Patents

... Computer **Graphics** and Applications, Pacific **Graphics** '95, Seoul ... Iwata, "Pen-based Haptic **Virtual** Environment," 0 ... Brooks et al., "**Hand** Controllers for Teleoperation ...

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... available as a geometric model, we can **hand** the combined ... 3D occlusion relationships between real and **virtual** objects ... the Z-buffer of the **graphics** hardware with ...

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... Model-View Paradigm The world of **virtual** objects in an ... design application and two views, a **graphics** rendering of ... On the other **hand** the browser creates a list ...

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... been done on basic personal computers with VGA **graphics**. ... that will include the signer's **hand** geometry and ... and the type, speed, and **graphic** capabilities of ...

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... , HJC DesRosiers, D Gomez, JF **Kramer**, J Tian, M ... - US Patent 7,050,955, 2006 - Google Patents

... infor- m e (or contacting) **virtual** object (such as a **graphical hand**) mation about the state of synchronization of various graphs. ...

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JA Moczko, L **Kramer**, J Jezewski, A Gacek - Engineering in Medicine and Biology Society, 2001. ..., 2001 - [ieeexplore.ieee.org](#)

... Final **graphical** interface of ... On the other **hand**, it should allow easy switching between ...

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